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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/987,486	11/15/2001	Kojiro Katayama	35.C15946	7223	
5514 FITZPATRICI	7590 02/15/200 C CELLA HARPER &	EXAMINER			
30 ROCKEFE	LLER PLAZA	WANG, LIANG CHE A			
NEW YORK,	NY 10112	ART UNIT	PAPER NUMBER		
		2155			
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	ONTHS	02/15/2007	PAPER		

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			Application No.		Applicant(s)			
Office Action Summary			09/987,486		KATAYAMA ET AL.			
		Γ	Examiner		Art Unit	/		
			Liang-che Alex Wang		2155			
Period fo	The MAILING DATE of this commun or Reply	ication appea	ars on the cover sheet w	with the co	orrespondence ac	idress		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IAILING DAT of 37 CFR 1.136( nunication. atutory period will will, by statute, ca	E OF THIS COMMUN  a). In no event, however, may a  apply and will expire SIX (6) MC  ause the application to become	IICATION a reply be time ONTHS from th ABANDONED	Ply filed ne mailing date of this c (35 U.S.C. § 133).	•		
Status								
1) 又	Responsive to communication(s) file	ed on <i>08 Jan</i>	uarv 2007.					
′=	· · · · · · · · · · · · · · · · · · ·	<del>-</del>	ction is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)  🂢	Claim(s) <u>10,20,30 and 33-53</u> is/are	pendina in th	e application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) 10,20,30 and 33-53 is/are	rejected.						
7)	Claim(s) is/are objected to.	•			•			
8)	Claim(s) are subject to restrict	ction and/or	election requirement.			٠		
Applicati	ion Papers							
9)	The specification is objected to by th	e Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
.,	Applicant may not request that any obje			-				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
,	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s) se of References Cited (PTO-892)		• A\ □ Intonio:	v Summary (	DTO:413)			
	e of Draftsperson's Patent Drawing Review (F	PTO-948)	Paper No	o(s)/Mail Dat	te			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:								

#### **DETAILED ACTION**

1. Claims 10, 20, 30, 33-53 are presented for examination.

2. Claims 10, 20, and 30 have been amended.

### Response to Arguments

- 3. pplicant's arguments filed 1/8/2007, have been fully considered but they are not persuasive.
  - a. In that remarks, applicant's argument are based on the amended features to the claims. However, the amended claims are rejected under second paragraph of 35 U.S.C. 112, with contradicting limitations. Therefore, the rejection is maintained and applicant's arguments are not persuasive.

### Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 10, 20, 30, 33-53 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 6. Referring to claim 10, 20, and 30, recites the limitation "... if the history information is present in said second storage unit, wherein said alarm sending unit does not send the alarm to the external apparatus even when a new reception of the absence information is received by said receiver unit, if the history information is absent in said second storage

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unit", which renders the claims vague and indefinite. The phrase is indefinite because the alarm does not send to the external apparatus under two contradicting conditions: 1. "if the history information is present in said second storage unit", and 2. "even when a new reception of the absence information is received by said receiver unit, if the history information is absent in said second storage unit". Therefore the claims are vague and in definite, the examiner does not consider the contradicting limitation for further examination.

7. All dependent claims are rejected to as having the same deficiencies as the claims they depend from.

### Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 10, 20, 30, 33-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanaya et al, US Publication Number 2002/0140748, hereinafter Kanaya, in views of Kobayashi et al., US Patent Number 6,338,539, hereinafter Kobayashi.
- 10. Referring to claim 10, Kanaya teaches an inventory management system that manage an inventory of an expendable (see title of Kanaya, and figure 15 shows an inventory of an

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expendable, the examiner corresponds a ink reservoir of an ink as an inventory of an expendable) comprising:

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- a. a first storage unit (items 62, 63, figure 10, page 8 [0098]), adapted to store inventory information indicating an inventory number of an expendable which is mounted in a printer (page 6 [0098]) and can be replaced by a new one (ink cartridge is replaceable), the inventory number being subtracted based on replacement of the expendable in the printer (page 4 [0036] lines 10-13, quantity of ink remaining in an ink reservoir is recorded, and it is inherent that when the inventory number (amount of ink in the ink reservoir) of the expendable (ink cartridge) is subtracted based on replacement (the space of the occupied ink is replaced) of the expendable in the printer, when then ink is consumed);
- b. a receiver unit, adapted to receive absence information indicating that the inventory number of the expendable is zero or less than a predetermined number (page 11 [0135] lines 12-17; [0032] lines 2-5);
- c. an instruction unit, adapted to provide, to an external apparatus via a communication line a instruction for expendable (page 4 [0032] lines 7-9, printer give alarm to another apparatus); and
- d. an alarm sending unit (page 4 [0032]), adapted to send an alarm to the external apparatus via the communication line (page 4 [0032] lines 7-9, printer give alarm to another apparatus) based on the history information stored in said second storage unit and a new reception of the absence information received by said receiver unit, after said instruction unit provide the instruction (page 4 [0032-

0034] alarm is given when the predetermined capacity of the ink reservoir become not greater than a predetermined value, so a new ink cartridge can be installed).

Kanaya does not teach a delivery instruction for delivery of a new expendable to the printer and a second storage, adapted to store history information indicating a history of the delivery instruction provided by said instruction unit.

However, Kobayashi teaches a delivery instruction for delivery of a new expendable to the printer (Col 5 lines 25-28, abstract, instruction is issued when replacement of ink is needed) and a second storage, adapted to store history information indicating a history of the delivery instruction provided by said instruction unit (step 187 in figure 12 and step 211 in figure 17, ink replacement is stored).

It would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate the ink cartridge replacement instruction and the storage means to store delivery instruction such that to have delivery instruction for delivery of a new expendable to the printer and a second storage, adapted to store history information indicating a history of the delivery instruction provided by said instruction unit because both Kobayashi and Kanaya teaches monitoring ink residual of a printer.

A person with ordinary skill in the art would have been motivated to make the modification to Kanaya because having the replacement instruction and the storage means for storing history of delivery instruction would prevent the user erroneously select the ink cartridge as taught by Kanaya.

11. Referring to claim 33, Kanaya as modified further teaches a system according to claim 10, wherein the inventory information stored by said first storage unit can be monitored

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by an external apparatus (page 6 [087] lines 5-8, computer 80 corresponds to external apparatus).

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- 12. Referring to claim 34, Kanaya as modified further teaches a system according to claim 10, wherein the inventory information can be monitored by a browser provided in the external apparatus (page 6 [0087] lines 5-8, and figure 2), and said first storage unit is able to output display information enabling the browser to monitor the inventory information (figure 15 page 4 [0036-0037]).
- 13. Referring to claim 35, Kanaya as modified further teaches a system according to claim 33, wherein said first storage unit stored the inventory information for each one of a plurality of expendable types, and the inventory information can be monitored for each expendable type by the external apparatus (see figure 15).
- 14. Referring to claim 36, Kanaya as modified further teaches a system according to claim 35, wherein said second storage unit stores the history information for each one of the plurality of expendable types so as to show that the delivery instruction has been provided for each expendable type by the external apparatus (page 6 [0087) lines 5-8.)
- 15. Referring to claim 37, Kanaya as modified further teaches a system according to claim 36, further comprising an order reception unit adapted to receive an order for an expendable of any one of the plurality of expendable types form the external apparatus, wherein the external apparatus is provided with an order placement display screen having a plurality of order placement sections for respective ones of the plurality of expendable types and wherein each order placement section is activated or inactivated in accordance with the inventory number of expendable for a expendable type corresponding to the

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order placement section (page 11 [0135], green to light to demand replacement of ink cartridge).

- 16. Referring of claim 38, Kanaya as modified further teaches a system according to claim 10, wherein the expendable is toner or ink (see title).
- 17. Referring to claim 39, Kanaya as modified further teaches a system according to claim 10, wherein the absence information indicates that a remaining amount of an expendable is at a low lever (page 1 [0002].)
- 18. Referring to claims 20, 40-46, and 30, 47-53. Claims 20, 40-46, and 30, 47-53 encompass the same scope of the invention as that of the claims 20, 33-39. Therefore, the claims 20, 40-46, and 30, 47-53 are rejected for the same reason as the claims 20, 33-39.

#### Conclusion

- 19. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 20. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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advisory action. In no event, however, will the statutory period for reply expire later than

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SIX MONTHS from the mailing date of this final action.

21. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Liang-che Alex Wang whose telephone number is

(571)272-3992. The examiner can normally be reached on Monday thru Friday, 8:30 am

to 5:00 pm.

22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Saleh Najjar can be reached on (571)272-4006. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

23. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Liang-che Alex Wang

February 8, 2007

SALEH NAJAR

SUBSOVISORY PATENT SYMMER